


LAUNCH PACKET



A large hexagonal mirror segment of the James Webb Space Telescope is being assembled in a cleanroom. The segment is mounted on a complex metal structure. Two technicians in white cleanroom suits are visible, working on the segment. The background shows the interior of a large facility with a high ceiling and a grid of lights.

Welcome to your virtual

LAUNCH PACKET!

In this packet, you will find everything you need to participate in the historic launch of NASA's Webb Space Telescope, a partnership led by NASA with the European Space Agency (ESA) and the Canadian Space Agency.

About the

WEBB MISSION

Webb will study how the early universe evolved into what we see today.



Download this poster for your home mission control.



WHAT YOU NEED TO KNOW

JOIN US ONLINE!

Launch Saturday, December 25
7:20 am ET / 9:20 am Kourou

NASA Channels:

NASA TV

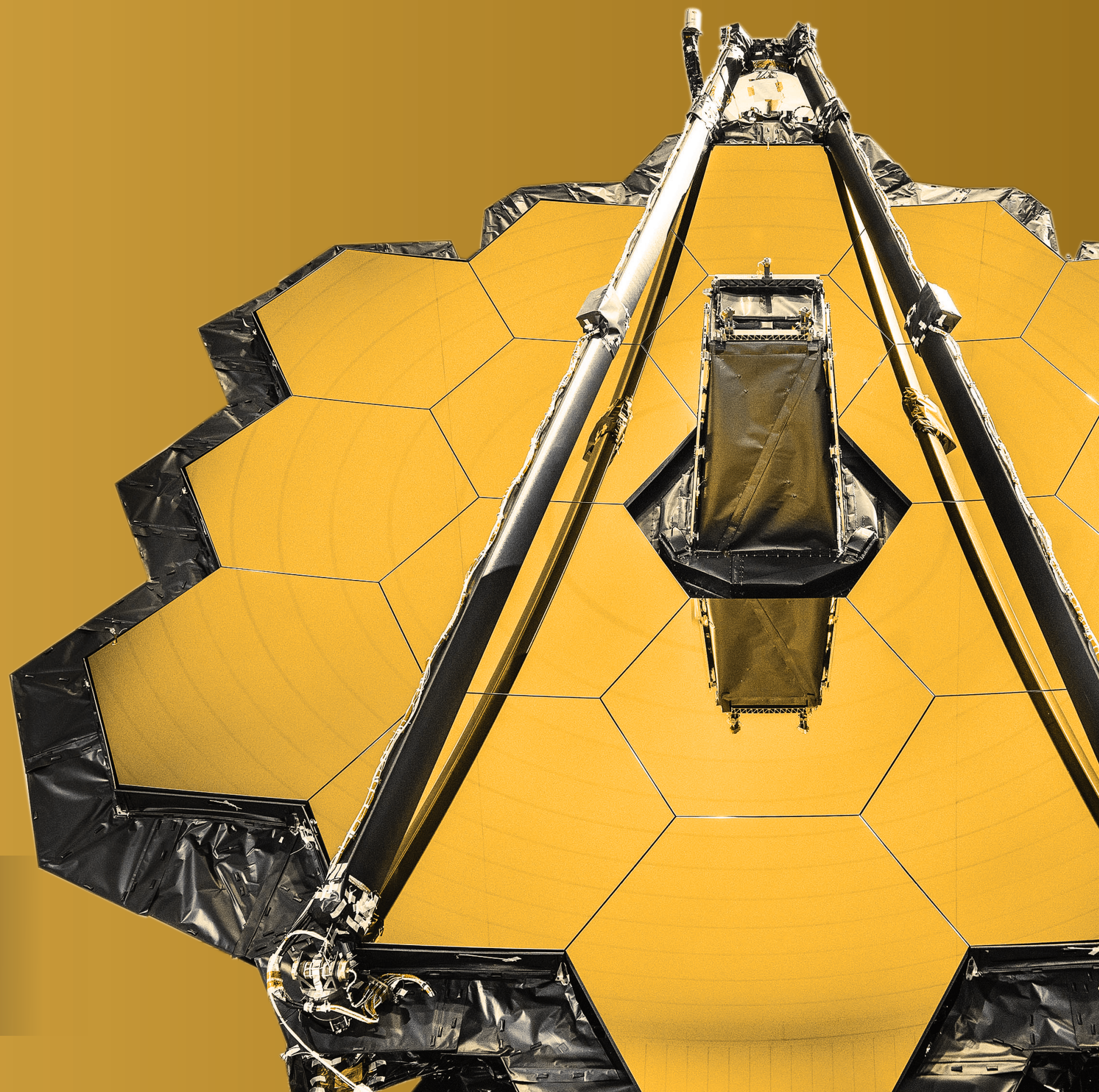
[NASA.gov/live](https://www.nasa.gov/live)

[YouTube.com/NASA](https://www.youtube.com/NASA)

[ustream.tv/NASAWebb](https://www.ustream.tv/NASAWebb)



**WATCH THE
LAUNCH BROADCAST**



Webb Space Telescope

QUICK FACTS



MAIN JOB

The Webb observatory is NASA's revolutionary flagship mission to seek the light from the first galaxies in the early universe, and to explore our own solar system, as well as nearby planets orbiting other stars, called exoplanets.

NUMBER OF INSTRUMENTS

1. Near-Infrared Camera (NIRCam)
2. Near-Infrared Spectrograph (NIRSpec)
3. Near-Infrared Slitless Spectrograph/Fine Guidance Sensor (NIRISS/FGS)
4. Mid-Infrared Instrument (MIRI)

SIZE

The primary mirror is over 21 feet (6.5 meters) in diameter. **The sunshield** is about 69.5 feet x 46.5 feet (about 21 meters x 14 meters), comparable to a tennis court.

WEIGHT

Approximately 13,700 pounds

OPERATING TEMPERATURE

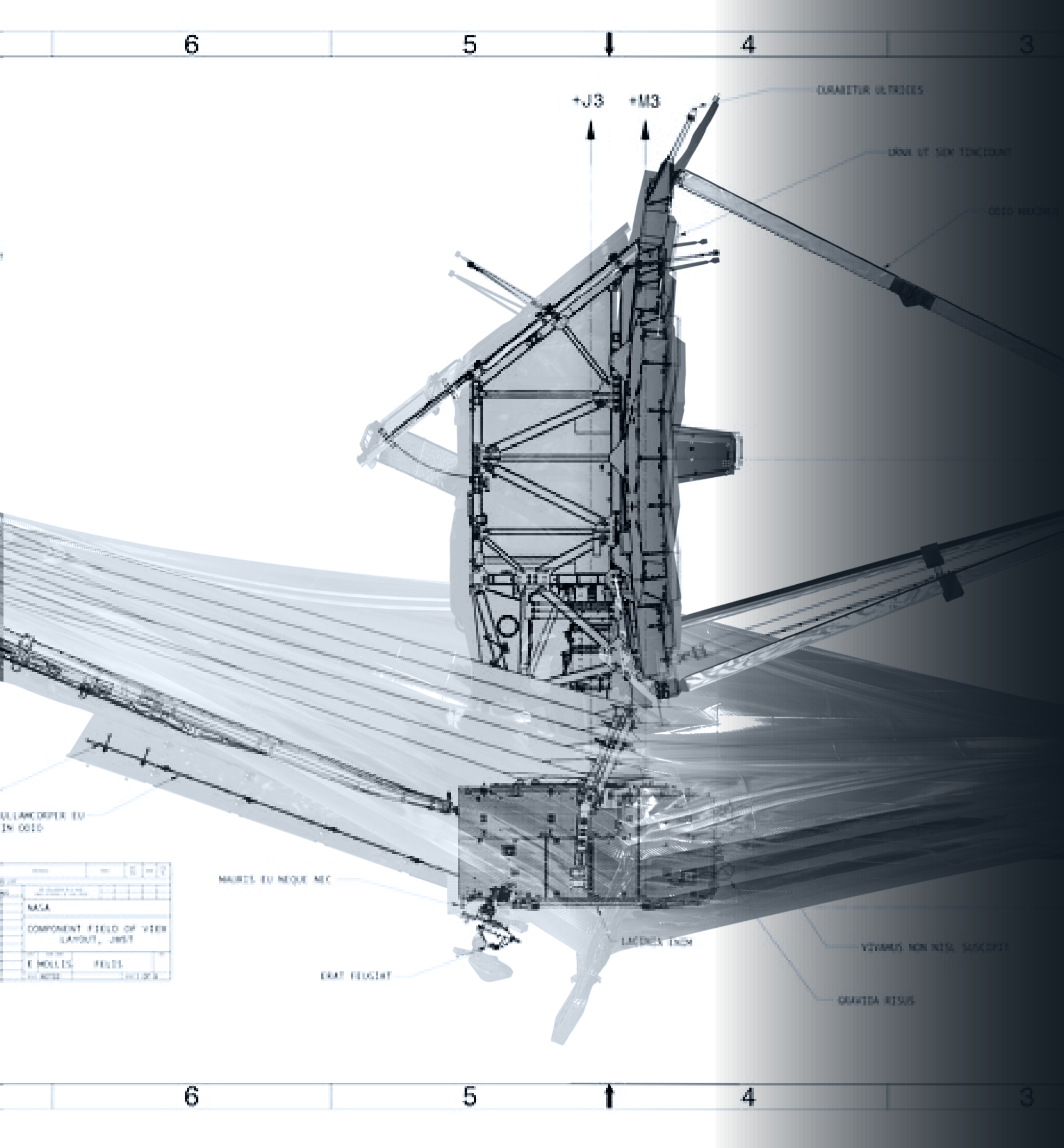
-370 degrees Fahrenheit (Below 60 kelvins)

Follow us @NASAWebb



and @NASAWebbTelescope





5 THINGS TO KNOW

about the Webb Mission



Webb's unprecedented sensitivity to infrared light will help astronomers understand how galaxies assemble over billions of years.



Webb will see through dust clouds, where stars and planetary systems are born.



In addition to learning about our own solar system, Webb will study atmospheres of planets orbiting other stars.



Webb will orbit the Sun at the second Lagrange point, called L2, which is located one million miles from Earth.



Webb's sunshield is the size of a tennis court. It protects the sensitive equipment by creating a difference in temperature between the hot and cold sides of the spacecraft of almost 600 degrees Fahrenheit!



Mission Site Countdown

A person wearing a white cleanroom suit, hood, and mask is working on a large, flat, metallic panel of a spacecraft instrument. The panel is mounted on a complex mechanical structure with various cables and connectors. The background is a dark, industrial setting with other large panels visible.

MISSION QUICK FACTS

LAUNCH

December 25

LAUNCH LOCATION

French Guiana

ORBIT

Second Lagrange point, or L2

MISSION DURATION

5-1/2 to 10 years

TRAVEL DISTANCE

1 million miles (1.5 million kilometers) from Earth

**DOWNLOAD FULL
MISSION FACT SHEET**



Grab Your

VIRTUAL PASSPORT!

If you submitted your name to the
“Unfold the Universe” campaign,
your flight is now boarding!

Register Here
as a NASA virtual
guest to receive
mission updates
in your inbox and a
stamp following
launch for your
virtual guest passport.



#UnfoldTheUniverse

Users on all social networks are encouraged to use the hashtag #UnfoldTheUniverse, #NASAWebb, and #NASASocial.

You can also track Webb's journey on social media. Follow these accounts for the latest:

Twitter

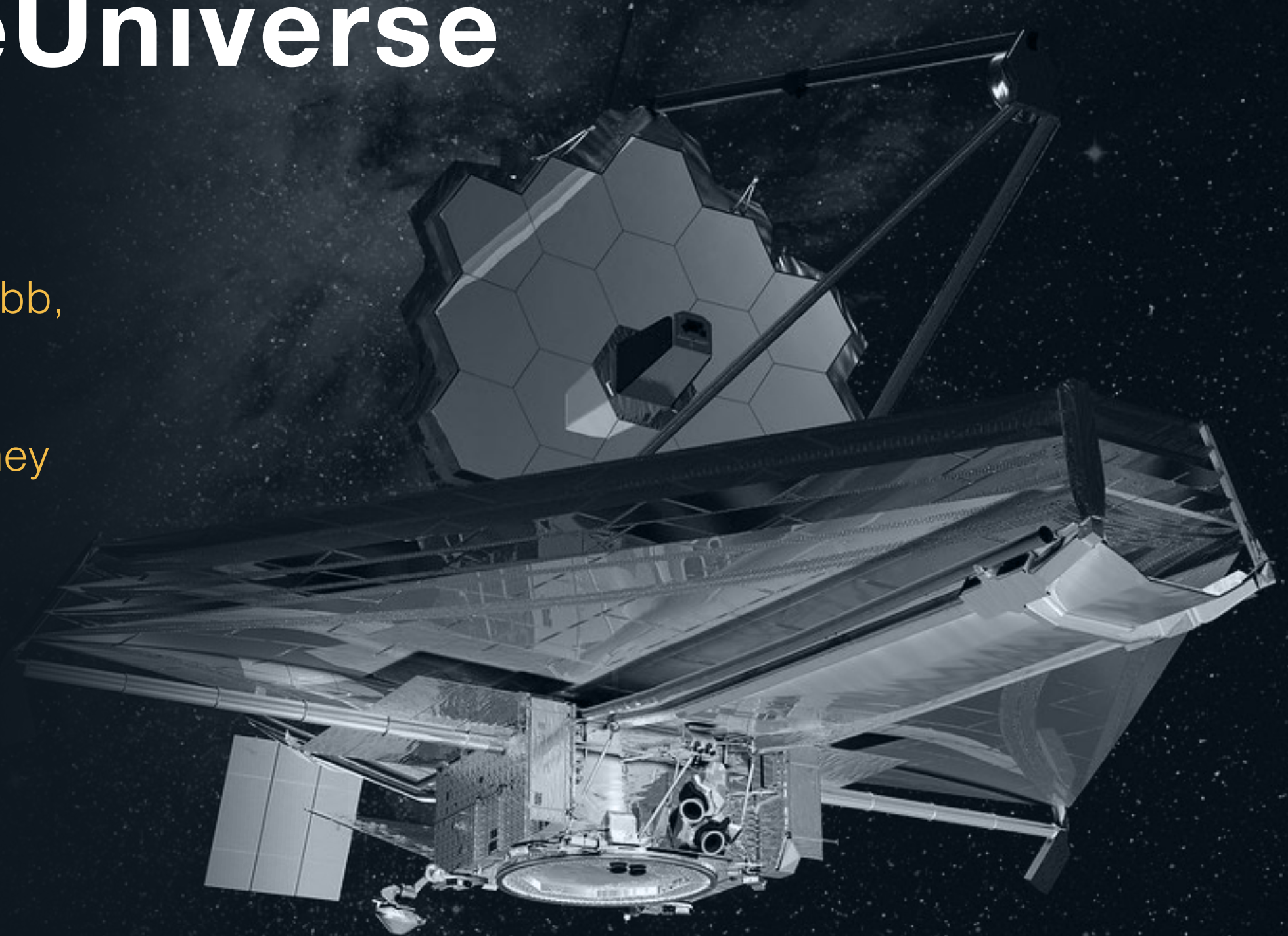
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[@CSA_ASC](#), [@SpaceTelescope](#)

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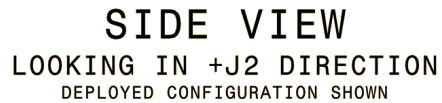
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EXPERIENCE THE VIRTUAL WEBB PLATFORM

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2	CRAS IN DUI VARIUS TEMPUS ERAT IN VESTIBULUM EST
3	CURABITUR FACILISIS LIGULA QUIS PELLENTEQUE
4	NULLA IN FELIS NON LIGULA TEMPOR BLANDIT A EU EX
5	IN DICTUM SEM EU DOLOR FRINGILLA ET EGESTAS LACUS
6	SED PELLENTEQUE ERAT VITAE DOLOR VULPUTATE ULTRICES
7	DUIS AUCTOR SEM EGEST DIGNISSIM SODALES
8	IN EGEST MAURIS MAXIMUS SCELERISQUE URNA AT TINCINDUNT
9	IN A LECTUS IN MI DIGNISSIM SEMPER EU NON SEM



MISSION FAQs



Additional Resources



NASA Webb Spinoffs



NASA Webb Launch Media Kit



Share the Excitement of Webb's Launch



Launch Site Photos



NASA's Curious Universe Podcast

